## PATENT COOPERATION ~ `EATY

To:	RNATIONAL SEAF	ionii da Aom	.	PCT			
	see form F	PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)			
		المستعدد ا		Date of mailing (day/month/year) se	e form PCT/ISA/210 (second sheet)		
	icant's or agent's file form PCT/ISA/22			FOR FURTHER See paragraph 2 belo			
i	national application N		International filing date (day/month/year) Priority date (day/mo 08.12.2004 Priority date (day/mo		Priority date (day/month/year) 09.12.2003	/	
A61	International Patent Classification (IPC) or both national classification and IPC A61P25/04, A61K9/24, A61K9/56 Applicant						
EUI	RO-CELTIQUE S	>.A. 			Manager to the state of the sta		
1.	. This opinion contains indications relating to the following items:						
	⊠ Box No. I	Basis of the or	oinion				
	☐ Box No. II	Priority		1 4 14			
				egard to novelty, inventive step and industrial applicability			
	☐ Box No. IV ☑ Box No. V	Reasoned sta		s.1(a)(i) with regard to s supporting such sta	novelty, inventive step or industrial tement		
	☐ Box No. VI Certain documents cited			•			
	☐ Box No. VII	Certain defect	s in the international app	olication			
	☐ Box No. VIII	Certain obsen	ations on the internation	nal application			
2.	FURTHER ACT	ION					
	If a demand for international preliminary examination is made, this opinion will usually be considered to be written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
	submit to the IPI	EA a written rep date of mailing	ly together, where appro	priate, with amendm	IPEA, the applicant is invited to ents, before the expiration of three n of 22 months from the priority date,		
	For further optio	ns, see Form P	CT/ISA/220.				
3.	For further detai	ls, see notes to	Form PCT/ISA/220.				
Nan	ne and mailing addre	ess of the ISA:		Authorized Officer	<sub>ref</sub> pas Pai	lanten	

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/041154

	Вох	No. I	Basis of the opinion				
1.	With regard to the <b>language</b> , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
		langua	pinion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).				
2.	With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. ty	pe of n	naterial:				
		⊐ as	equence listing				
		□ tab	le(s) related to the sequence listing				
	b. format of material:						
	[	⊐ in v	vritten format				
	[	□ in c	computer readable form				
	c. ti	me of fi	ling/furnishing:				
	[	□ cor	ntained in the international application as filed.				
	[	□ file	d together with the international application in computer readable form.				
	[	□ furi	nished subsequently to this Authority for the purposes of search.				
3.		has be	ition, in the case that more than one version or copy of a sequence listing and/or table relating thereto sen filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as oriate, were furnished.				
4.	. Additional comments:						

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:						
	the entire international application,					
$\boxtimes$	claims Nos. 29,64,65					
because:						
⊠	the said international application, or the said claims Nos. 29,64,65 relate to the following subject matter which does not require an international preliminary examination (specify):					
	see separate sheet					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
	no international search report has been established for the whole application or for said claims Nos.					
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
	the written form		has not been furnished			
			does not comply with the standard			
	the computer readable form		has not been furnished			
			does not comply with the standard			
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
	See separate sheet for further details					

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-65

No: Claims

Inventive step (IS)

Yes: Claims

1-65

Claims No:

Industrial applicability (IA)

Yes: Claims

1-28,30-63

No: Claims

2. Citations and explanations

see separate sheet

### Re Item III.

Claims 29, 64 and 65 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of this claim (Article 34(4)(a)(I) PCT).

### Re Item V.

1 Reference is made to the following documents:

D1: WO 2004/026283 A (ALPHARMA, INC; BOEHM, GARTH) 1 April 2004

D2: WO 2004/093819 A (EURO-CELTIQUE, S.A) 4 November 2004

D3: US 2003/157168 A1 (BREDER CHRISTOPHER ET AL) 21 August 2003

D4: US 2003/124185 A1 (OSHLACK BENJAMIN ET AL) 3 July 2003

- 2. The state of the art discloses extruded abuse-resistant dosage forms comprising an active agent such as opioids and an antagonist thereof, the latter being optionally in a substantially non-releasable form, i.e. a sequestered form.
- 2.1 D3 discloses the separate preparation of coated antagonist particles (cf. paragraph [0123]) and of an agonist comprising extrudate which is cut into particles (cf. paragraph [0203]-[0204]). The coated antagonist particles and the extruded agonist particles are subsequently combined in a appropriate dosage form, such as a capsule or tablet (cf. paragraph [0207]-[0208]). Co-extrusion of a core material comprising the antagonist and a shell material comprising the agonist is however not disclosed nor suggested by D3.
- 2.2 D4 discloses the extrusion of a homogeneous mixture comprising an opioid agonist, an opioid antagonist and a sustained release and binder material (cf. paragraph [0136]-[0137]). D4 also suggests the separate extrusion of the agonist and antagonist and their subsequent combination in form of multiparticulate material in a capsule or tablet (cf. paragraph [0138]). Co-extrusion of a core material comprising

the antagonist and a shell material comprising the agonist is however not disclosed nor suggested by D4.

- 3. Documents D1 and D2 are referred to by virtue of Rule 64(3) PCT and accordingly are not considered part of the prior art for the purposes of Article 33(2) and (3) PCT.
- 3.1 D1 (cf. paragraph [0075]) suggests co-extrusion of a material comprising the agonist and of a material comprising the antagonist in sequestered form. Co-extrusion in form of an antagonist-core and agonist shell is however not disclosed.
- 3.2 D2 discloses co-extrusion of an antagonist core material surrounded by a hydrophobic shell in order to provide sequestered antagonist particles, which are subsequently combined with agonist particles. Co-extrusion of antagonist and agonist is not disclosed.
- 4. The problem to be solved by the present invention was to provide a co-extruded dosage form comprising an active agent and an adverse agent rendering said dosage form resistant against abusive use. The present invention provides an alternative to the state of the art, which is easily prepared and tamper resistant. The dosage form and method according to claims 1-65 is not disclosed nor suggested by any of the above mentioned prior art documents on its own, nor by a combination of the teaching of said documents. Hence, the subject-matter of claims 1-65 is considered to meet the requirements of novelty and inventive step (Art. 33(2)-(3) PCT).
- 5. The subject-matter of claims 1-28 and 30-63 is considered to be industrially applicable and accordingly meets the requirements of Art.33(4) PCT.